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### Summary

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An optical information transmission system comprises a plurality of optical transmitters (1) and receivers (2), each having ports (5, 16) for exchangeable waveguides (6). Each transmitter (1) has an input (9) for receiving an enable signal assigned to it, and the transmitter (1) is adapted to generate or not to generate an optical information signal according to the status of the enable signal. A signal generator (21, 24) for generating such an enable signal is associated to each optical receiver (2), the status of the enable signal indicating whether the receiver (2) is connected via a waveguide (6) to a transmitter (1) or not. Each signal generator (21, 24) is connected to one enable input (9) by an enable control line (15) wired separately from the waveguides (6) and is adapted to generate the enable signal only after a test signal specific for each receiver (2) has been received at its waveguide port (16).

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(Fig. 1)